

Southwest Louisiana Regional Update

CPRA Board Meeting

Jerry Carroll

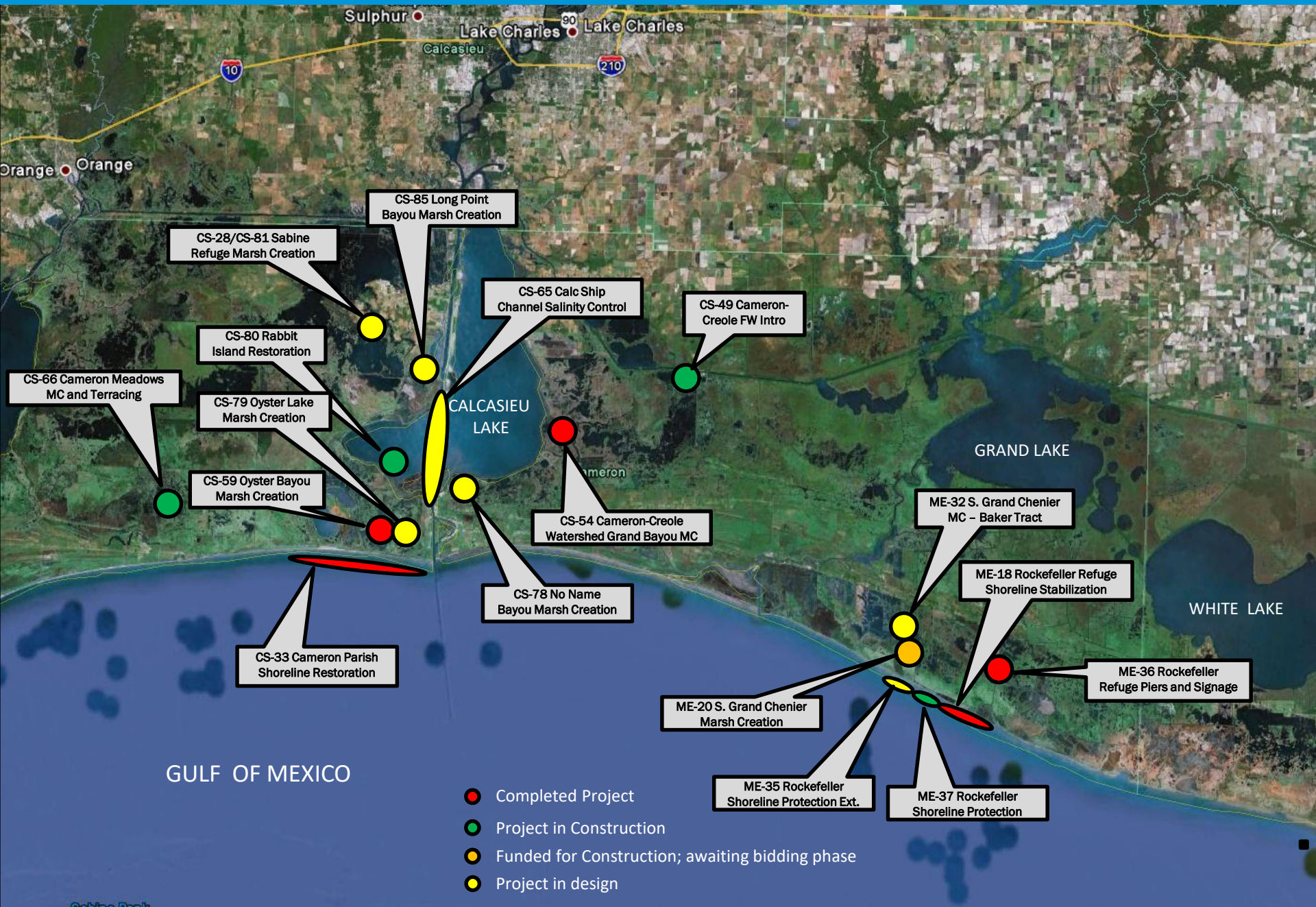
CPRA Lafayette Regional Operations Manager

September 30, 2020



committed to our coast

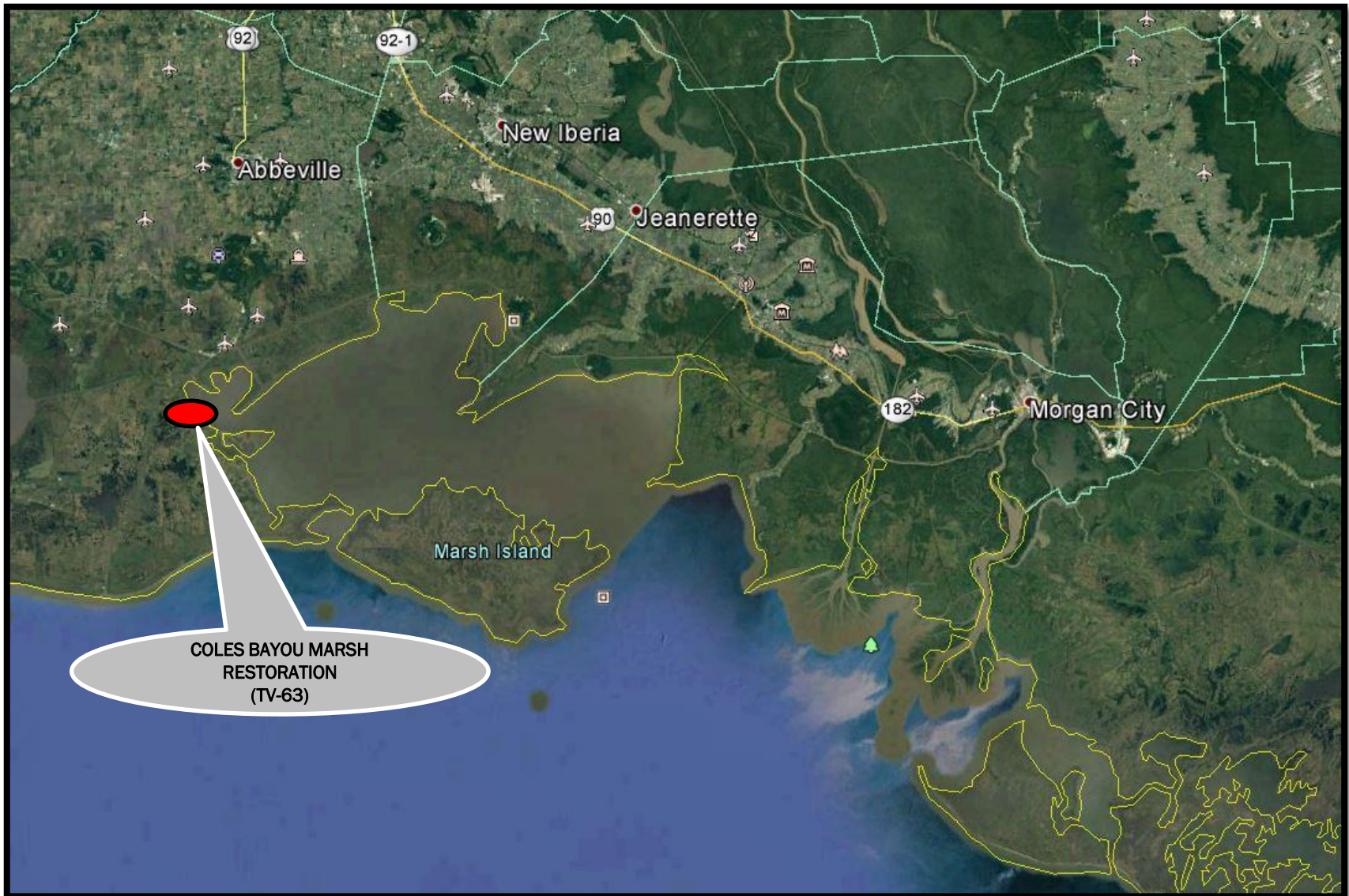
CURRENT PROJECTS



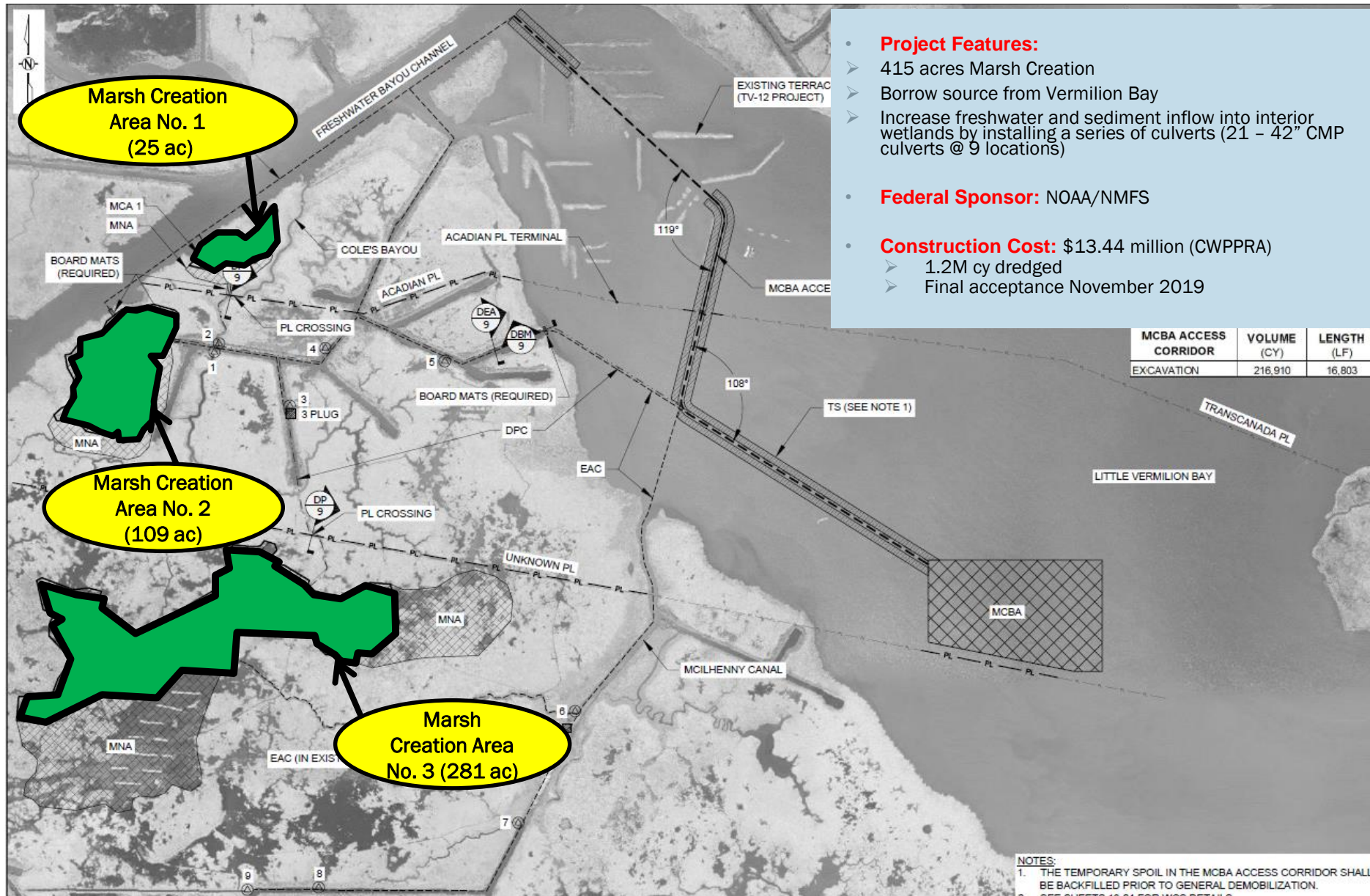
CURRENT PROJECTS



Coles Bayou Marsh Restoration Project (TV-63)



Coles Bayou Marsh Restoration Project (TV-63)



Coles Bayou Marsh Restoration Project (TV-63)



Coles Bayou Marsh Restoration Project (TV-63)

Post Hurricane Laura 9/9/2020



Coles Bayou Marsh Restoration Project (TV-63)



Coles Bayou Marsh Restoration Project (TV-63)



Grand Bayou Marsh Creation Project

(CS-54)



CALCASIEU
LAKE

Cameron

GRAND LAKE

WHITE
LAKE

CAMERON-CREOLE WATERSHED
GRAND BAYOU MARSH CREATION
PROJECT
(CS-54)

GULF OF MEXICO

Grand Bayou Marsh Creation Project

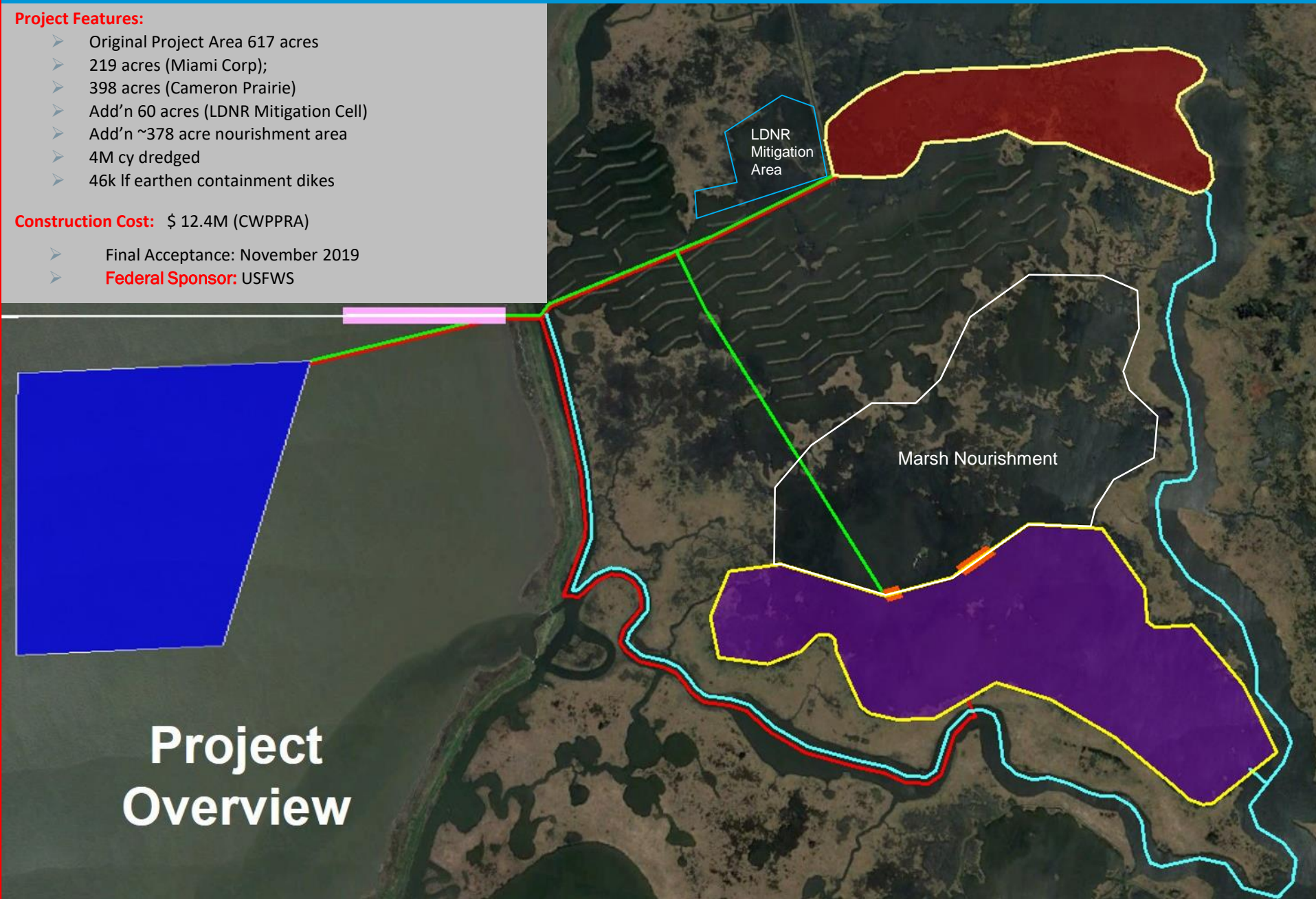
(CS-54)

Project Features:

- Original Project Area 617 acres
- 219 acres (Miami Corp);
- 398 acres (Cameron Prairie)
- Add'n 60 acres (LDNR Mitigation Cell)
- Add'n ~378 acre nourishment area
- 4M cy dredged
- 46k lf earthen containment dikes

Construction Cost: \$ 12.4M (CWPPRA)

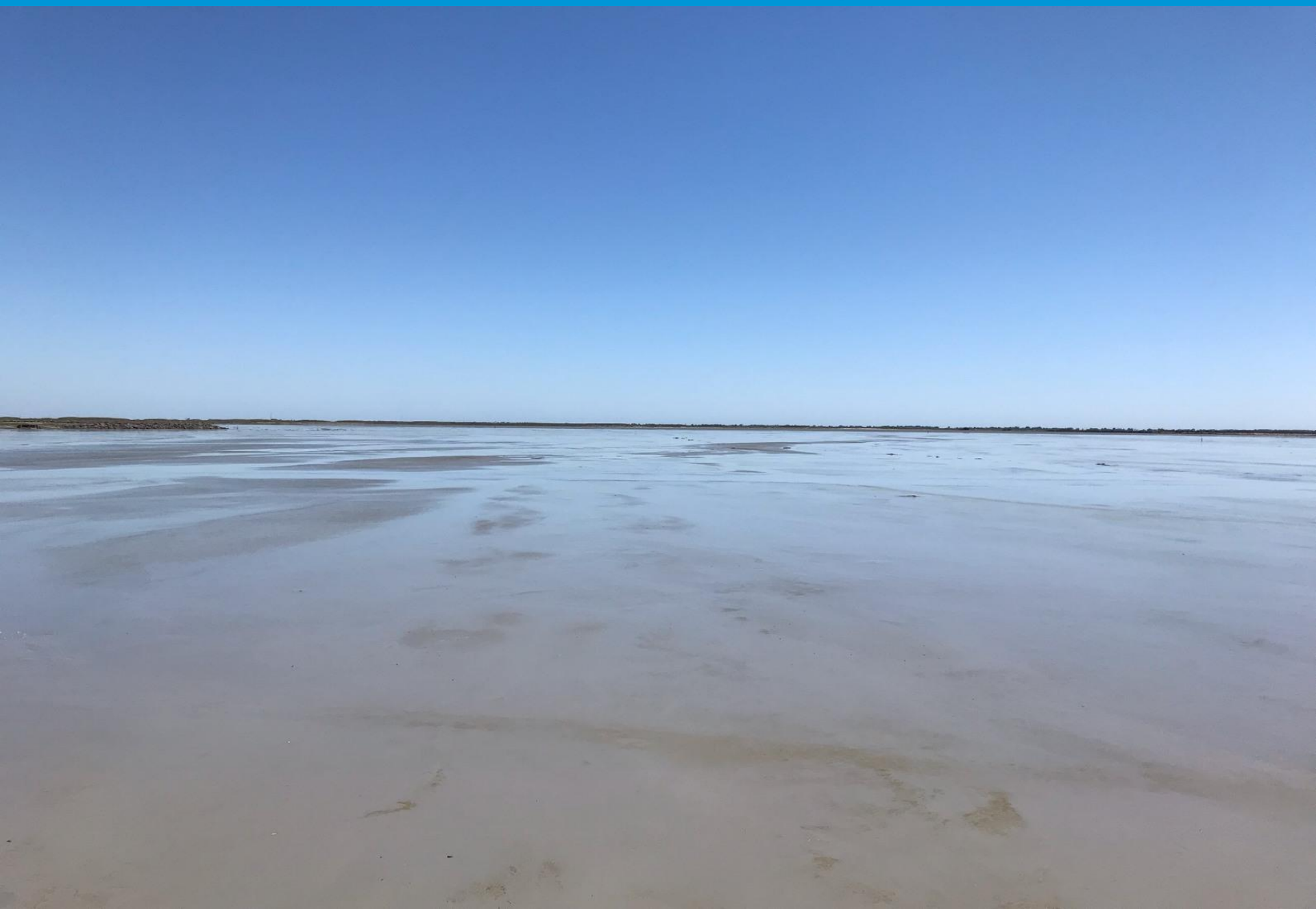
- Final Acceptance: November 2019
- **Federal Sponsor:** USFWS



**Project
Overview**

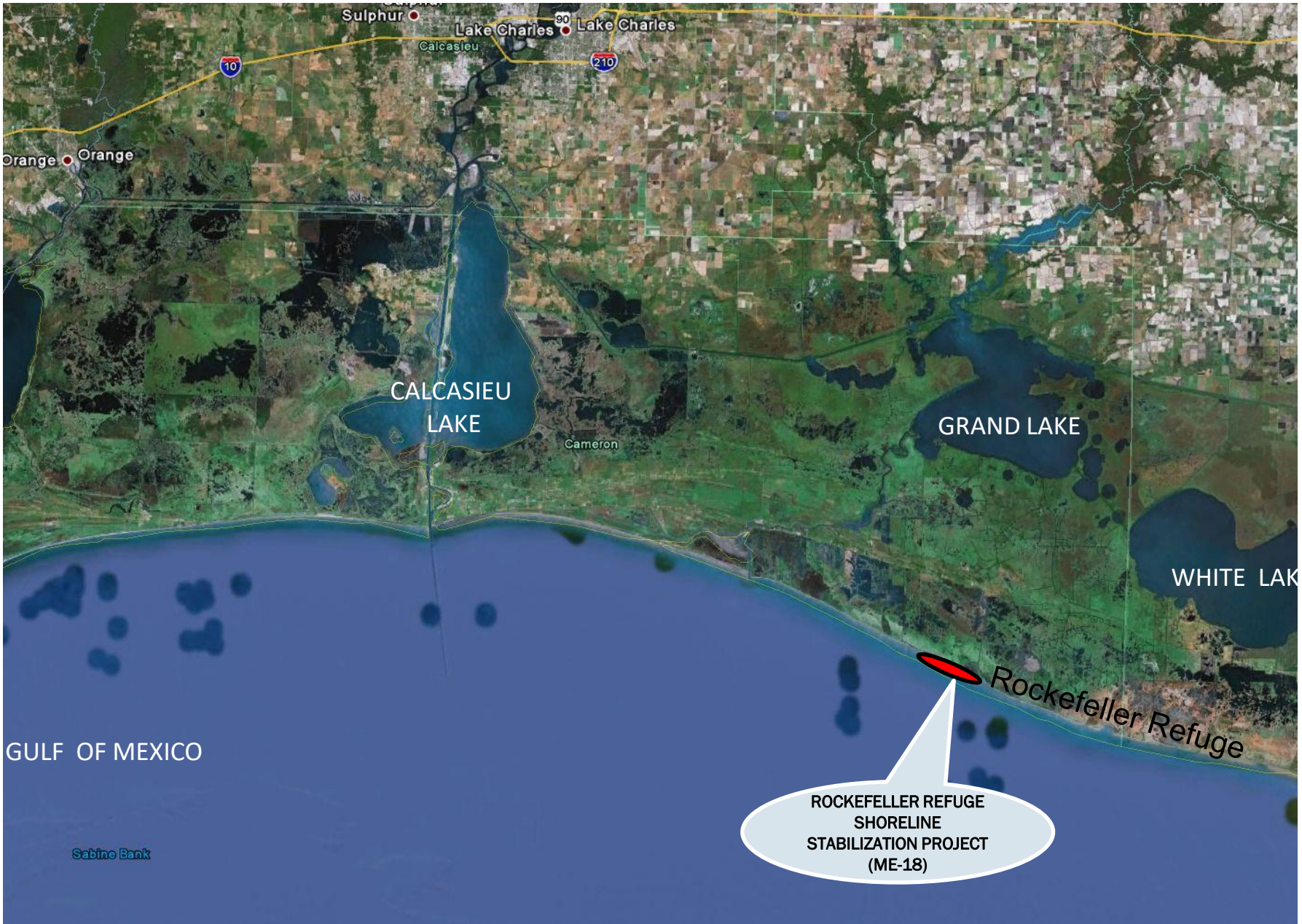








Rockefeller Refuge Shoreline Stabilization (ME-18)



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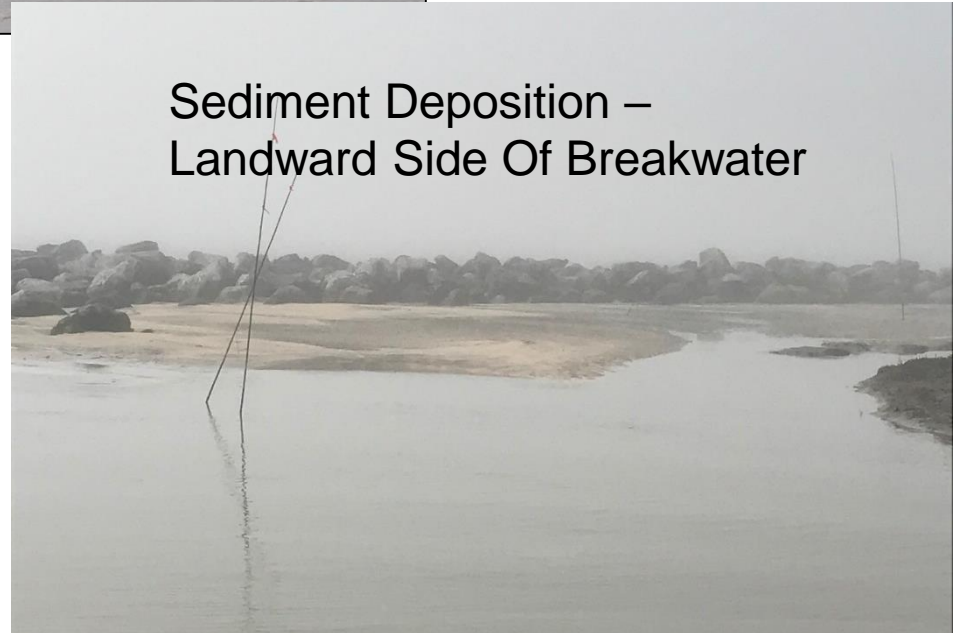
Rockefeller Refuge Shoreline Stabilization (ME-18)



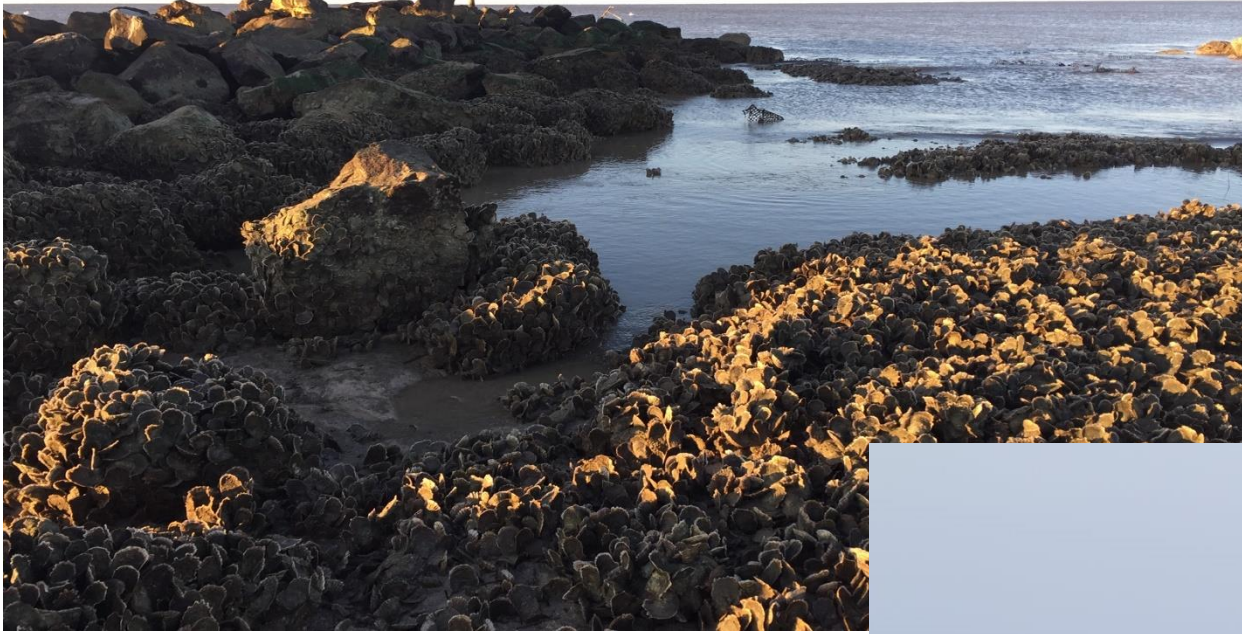
Rockefeller Refuge Shoreline Stabilization (ME-18)



Sediment Deposition –
Landward Side Of Breakwater



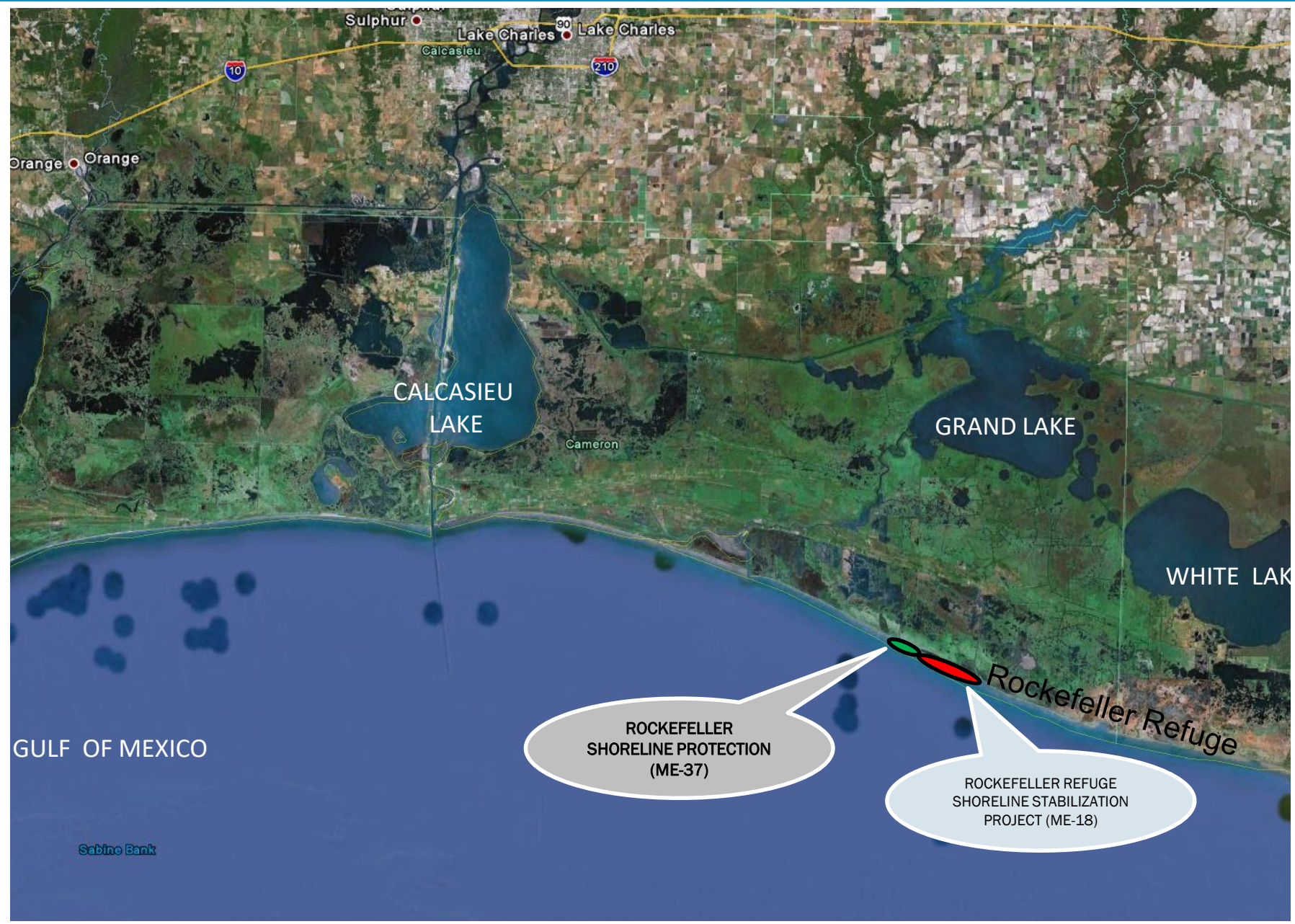
Rockefeller Refuge Shoreline Stabilization (ME-18)



Rockefeller Refuge Shoreline Stabilization (ME-18)



Rockefeller Shoreline Protection (ME-37)

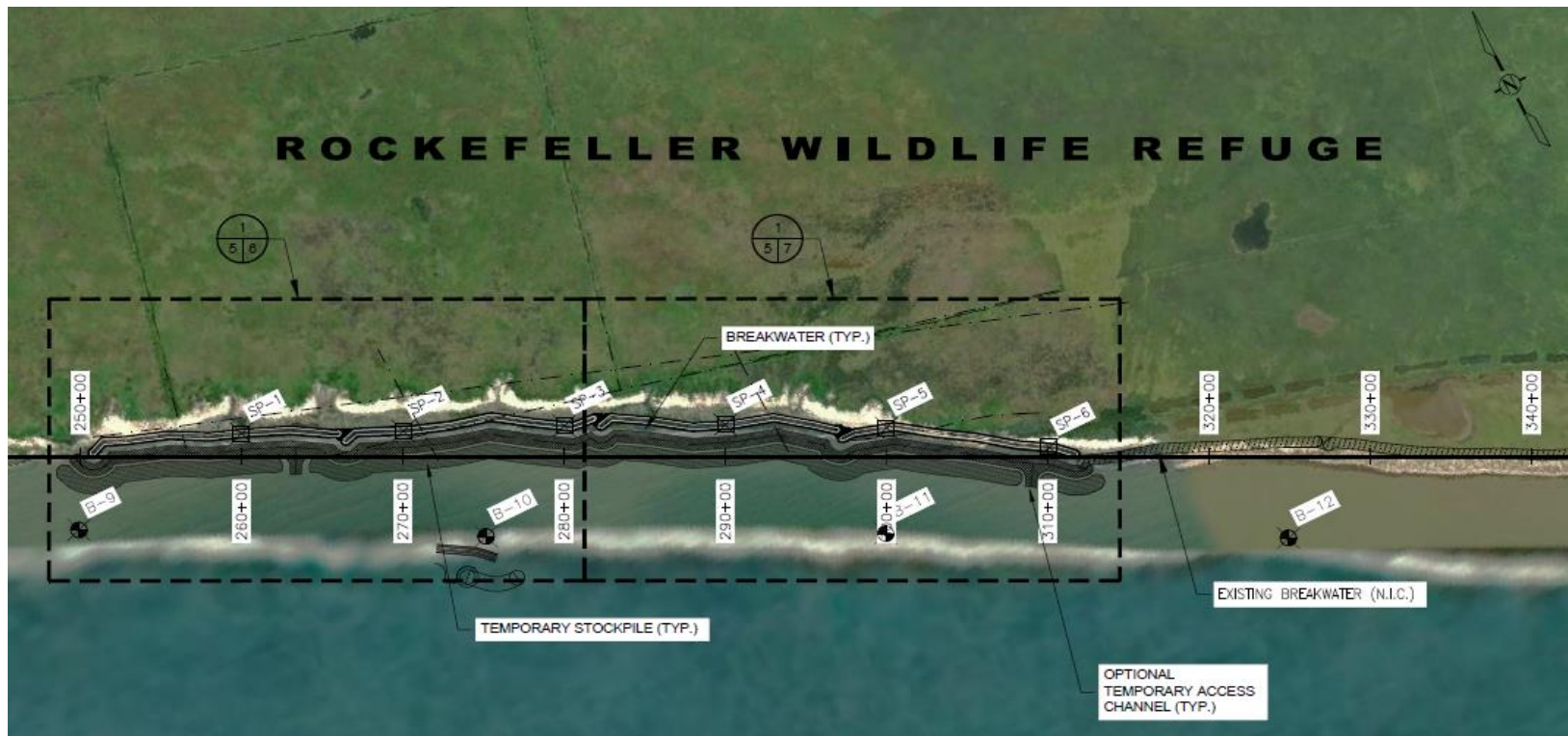


Rockefeller Shoreline Protection (ME-37)

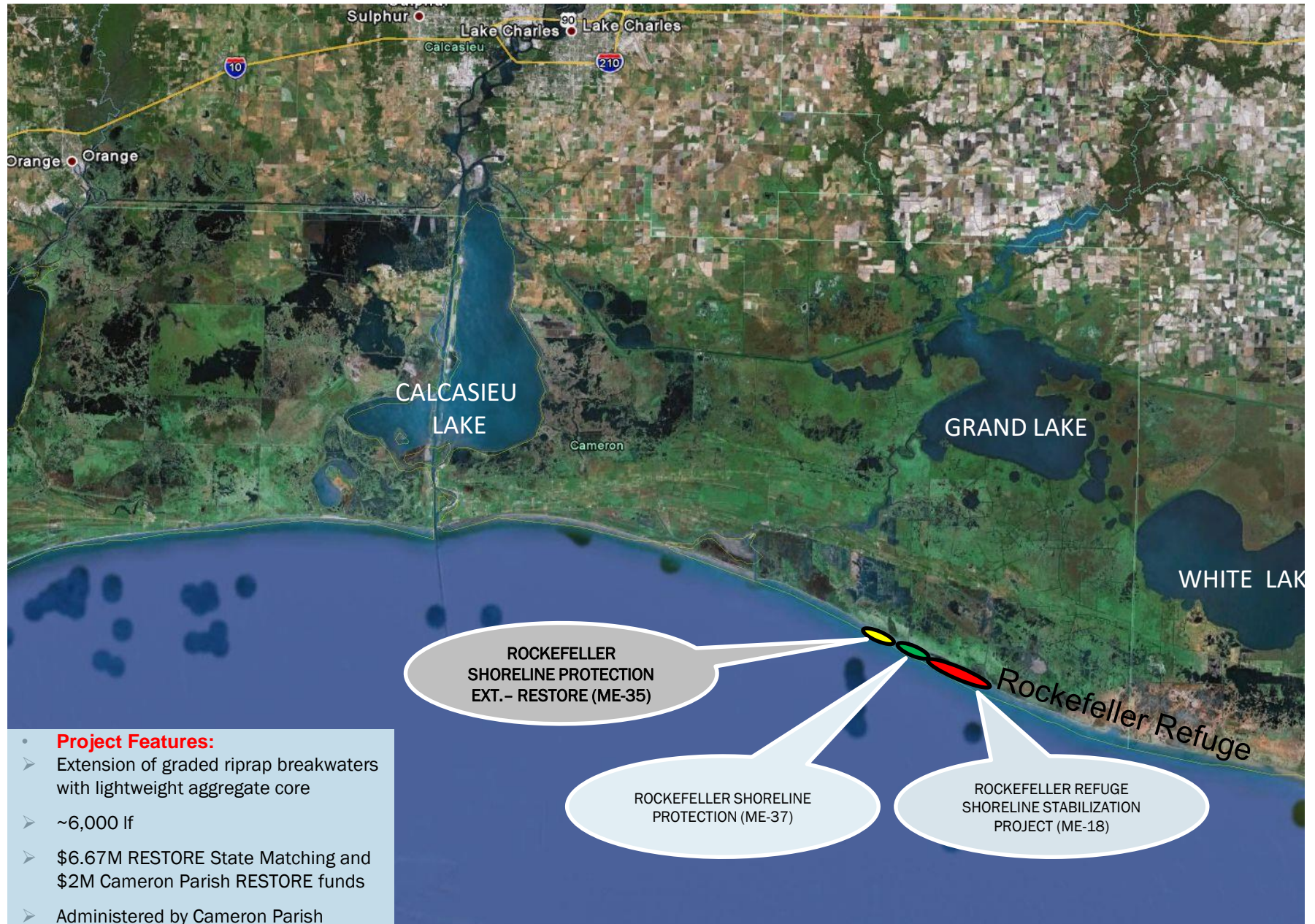
Construction- Details

\$5M State Surplus + \$4.3M Cameron Parish (Gustav/Ike CDBG)

- Construct 4,100 LF of graded riprap breakwaters with lightweight aggregate core along Rockefeller Refuge shoreline immediately west of CWPPRA project ME-0018
- Construction Contract \$6.75M – administered by Cameron Parish
- Contractor currently performing lightweight aggregate bagging operations
- NTP issued April 2020; 250 calendar days – Dec. 2020 completion



Rockefeller Shoreline Protection - Restore (ME-35)

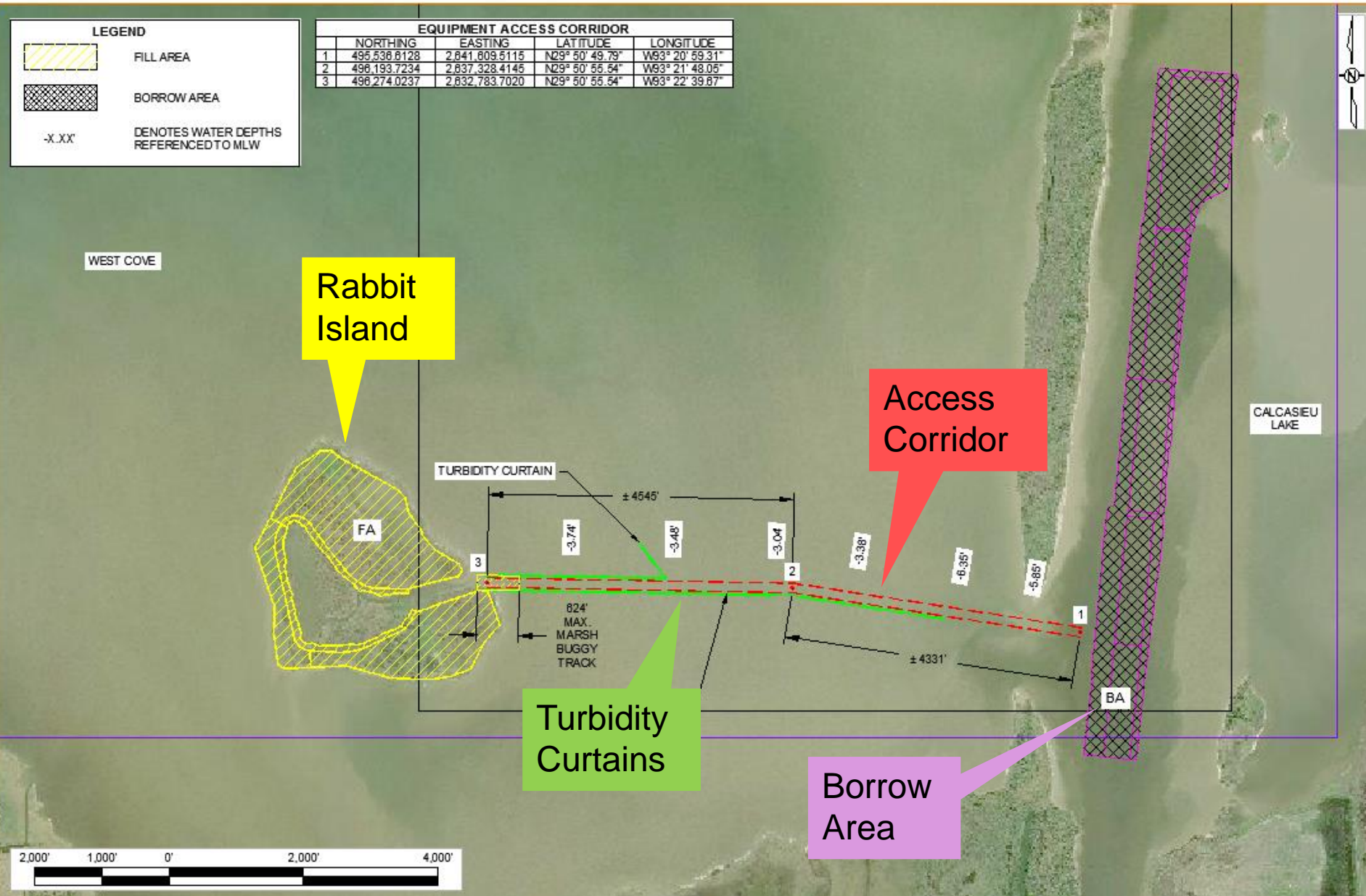


Rabbit Island Restoration Project (CS-80)



Rabbit Island Restoration Project (CS-80)

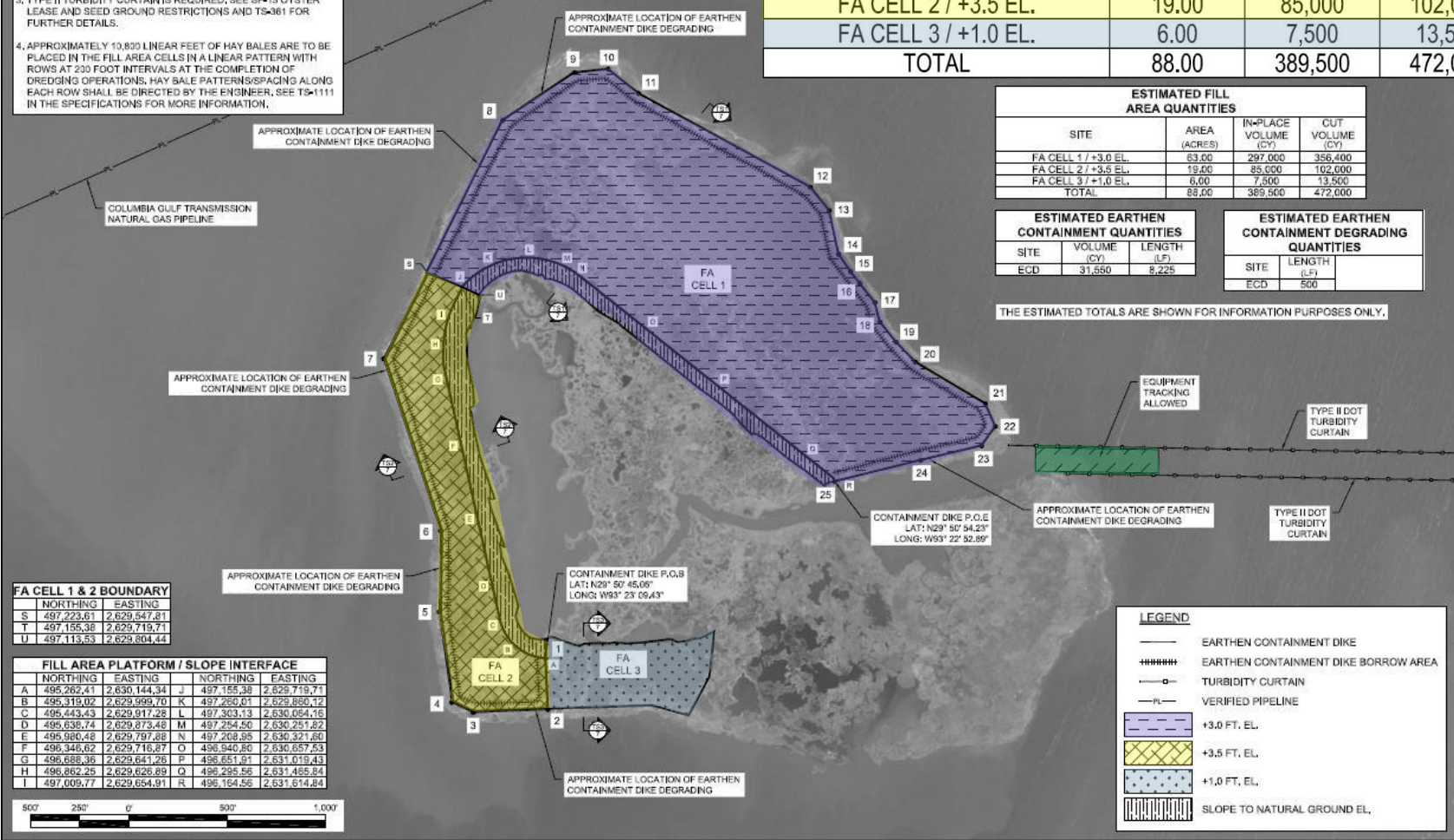




Rabbit Island Restoration Project (CS-80)

Project Fill Area

- NOTE:**
1. PROJECT STAKEHOLDERS WILL VISIT THE SITE WITH THE CONTRACTOR TO DETERMINE THE APPROPRIATE DEGRADING LOCATIONS. MATERIAL MOVED DURING DEGRADING WILL BE PLACED IN ADJACENT LOW LYING AREAS WITHIN THE FILL AREA CELL. SEE TS-300.7.
 2. THE VERTICAL ELEVATION TOLERANCE FOR THE CREST HEIGHT OF THE DIKES SHALL BE PLUS ONE FOOT (+1.0 FT) ABOVE THE SPECIFIED ELEVATIONS.
 3. TYPE II TURBIDITY CURTAIN IS REQUIRED. SEE SP-13 OYSTER LEASE AND SEED GROUND RESTRICTIONS AND TS-361 FOR FURTHER DETAILS.
 4. APPROXIMATELY 10,800 LINEAR FEET OF HAY BALES ARE TO BE PLACED IN THE FILL AREA CELLS IN A LINEAR PATTERN WITH ROWS AT 200 FOOT INTERVALS AT THE COMPLETION OF DREDGING OPERATIONS. HAY BALE PATTERNS/SPACINGS ALONG EACH ROW SHALL BE DIRECTED BY THE ENGINEER. SEE TS-1111 IN THE SPECIFICATIONS FOR MORE INFORMATION.



FA CELL 1 & 2 BOUNDARY

	NORTHING	EASTING
A	497,223.61	2,629,547.81
S	497,155.38	2,629,719.71
U	497,113.53	2,629,804.44

FILL AREA PLATFORM / SLOPE INTERFACE

	NORTHING	EASTING		NORTHING	EASTING
A	495,202.41	2,630,144.34	J	497,155.38	2,629,719.71
B	495,319.02	2,629,999.70	K	497,250.61	2,629,650.12
C	495,443.43	2,629,917.28	L	497,303.13	2,630,054.16
D	495,636.74	2,629,873.48	M	497,254.50	2,630,251.82
E	495,980.48	2,629,797.88	N	497,208.95	2,630,321.60
F	496,345.62	2,629,716.87	O	496,940.80	2,630,657.53
G	496,685.35	2,629,641.28	P	496,651.61	2,631,019.43
H	496,852.25	2,629,626.89	Q	496,295.56	2,631,455.94
I	497,009.77	2,629,654.91	R	496,164.56	2,631,614.84

ESTIMATED FILL AREA QUANTITIES

SITE	AREA (ACRES)	IN-PLACE VOLUME (CY)	CUT VOLUME (CY)
FA CELL 1 / +3.0 EL.	63.00	297,000	356,400
FA CELL 2 / +3.5 EL.	19.00	85,000	102,000
FA CELL 3 / +1.0 EL.	6.00	7,500	13,500
TOTAL	88.00	389,500	472,000

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ESTIMATED EARTHEN CONTAINMENT QUANTITIES

SITE	VOLUME (CY)	LENGTH (LF)
ECD	31,550	8,225

ESTIMATED EARTHEN CONTAINMENT DEGRADING QUANTITIES

SITE	LENGTH (LF)
ECD	500

THE ESTIMATED TOTALS ARE SHOWN FOR INFORMATION PURPOSES ONLY.

LEGEND

- EARTHEN CONTAINMENT DIKE
- ++++ EARTHEN CONTAINMENT DIKE BORROW AREA
- TURBIDITY CURTAIN
- VERIFIED PIPELINE
- +3.0 FT. EL.
- +3.5 FT. EL.
- +1.0 FT. EL.
- SLOPE TO NATURAL GROUND EL.

Rabbit Island Restoration Project (CS-80)

- **Project Vision:** Restore 88 acres of eroded marsh and nourish existing marsh to benefit bird habitat (Brown Pelican)
- **Project Stakeholders:** CPRA and LDWF
- **Project Features:**
 - 8,225 lf of Earthen Containment Dike
 - 472,000 cy of Fill Material
 - Calcasieu River Borrow Source (Sand/Clay mix)
 - Turbidity Curtains along Access Corridor (Protect Oyster Resource)
- **Project Status:**
 - Construction Contract: \$ 7.27 Million
 - Contractor installing turbidity curtain installation and performing pre-construction surveys
 - Anticipate dredging Nov/Dec 2020; early spring 2021 completion

Rabbit Island Restoration Project (CS-80)



Cameron Meadows Marsh Creation

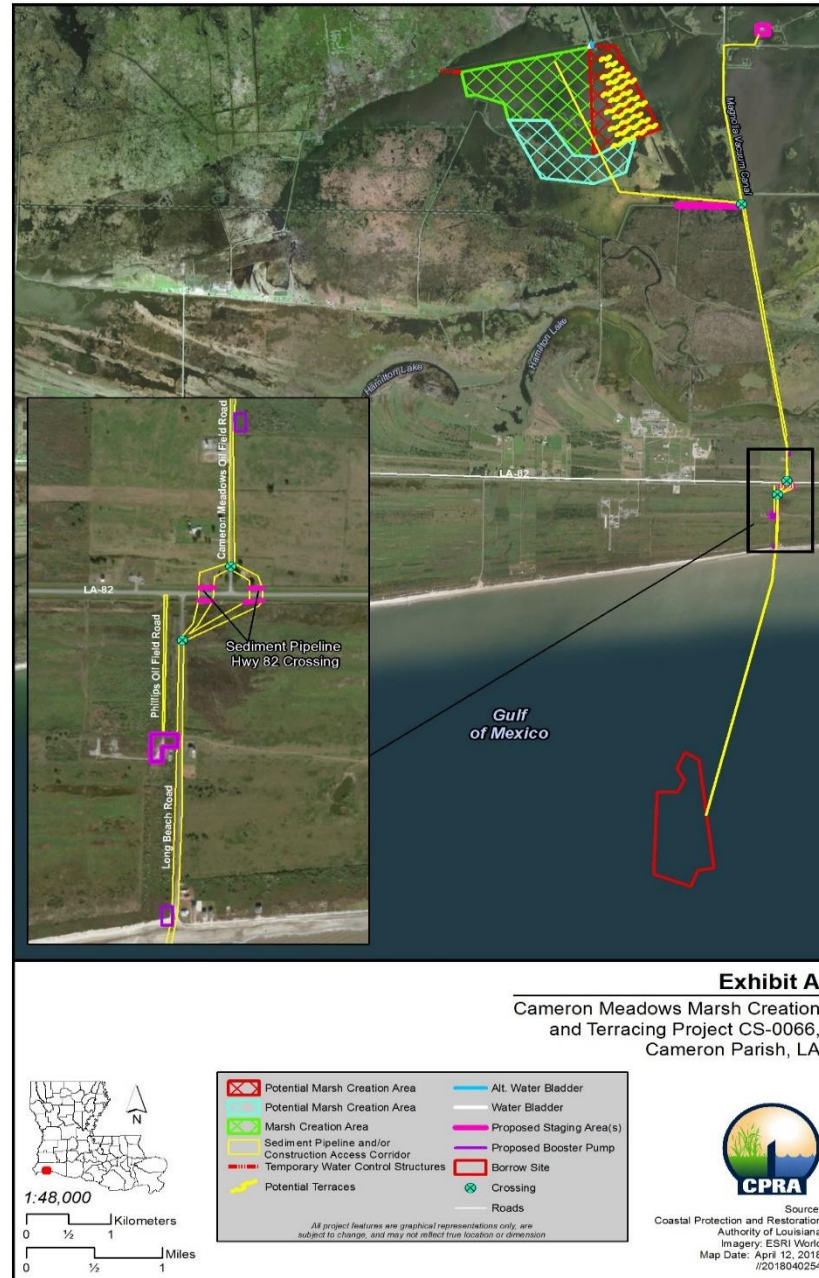
(CS-66)



CAMERON MEADOWS
MARSH CREATION
PROJECT (CS-66)

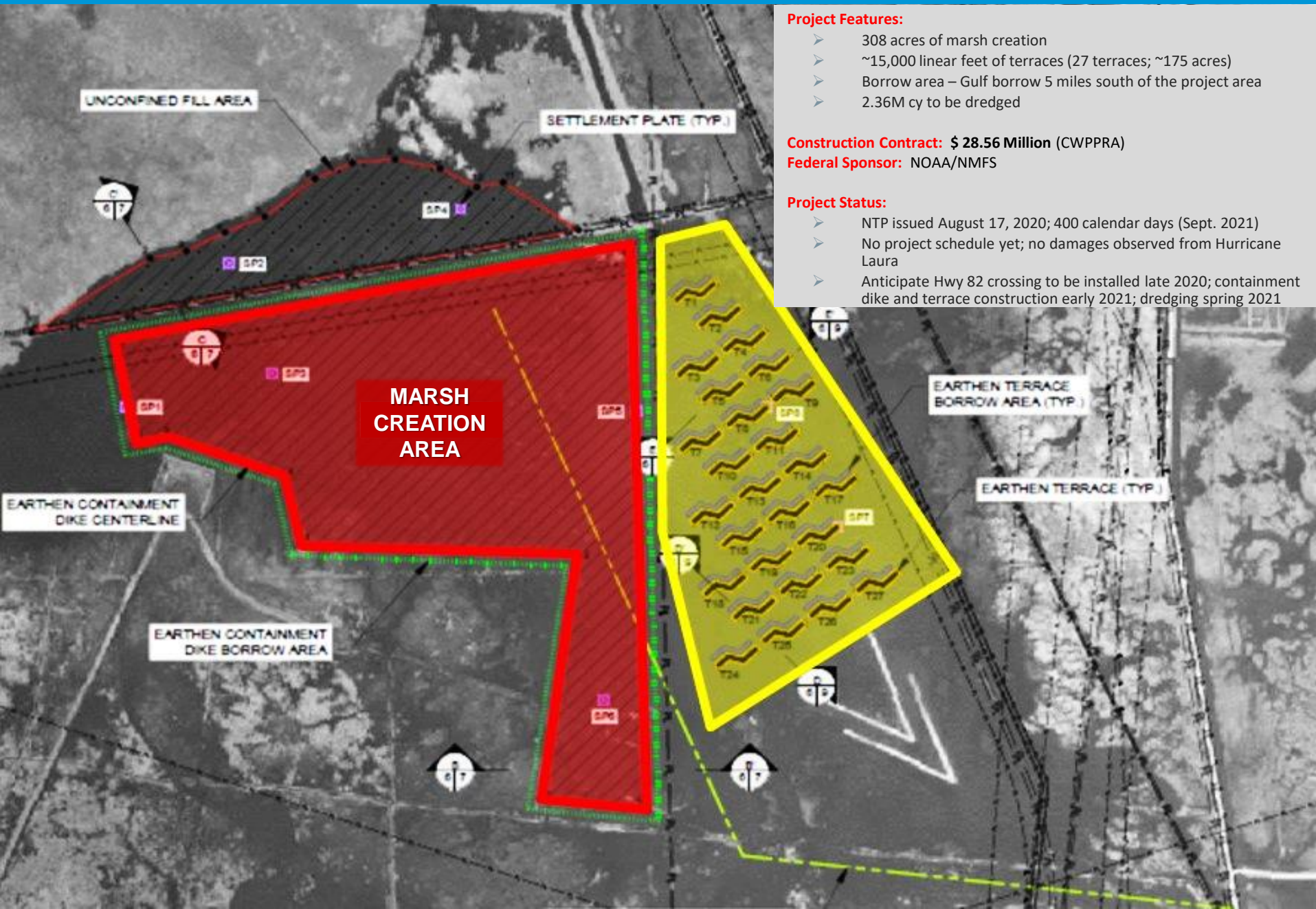
Cameron Meadows Marsh Creation

(CS-66)



Cameron Meadows Marsh Creation

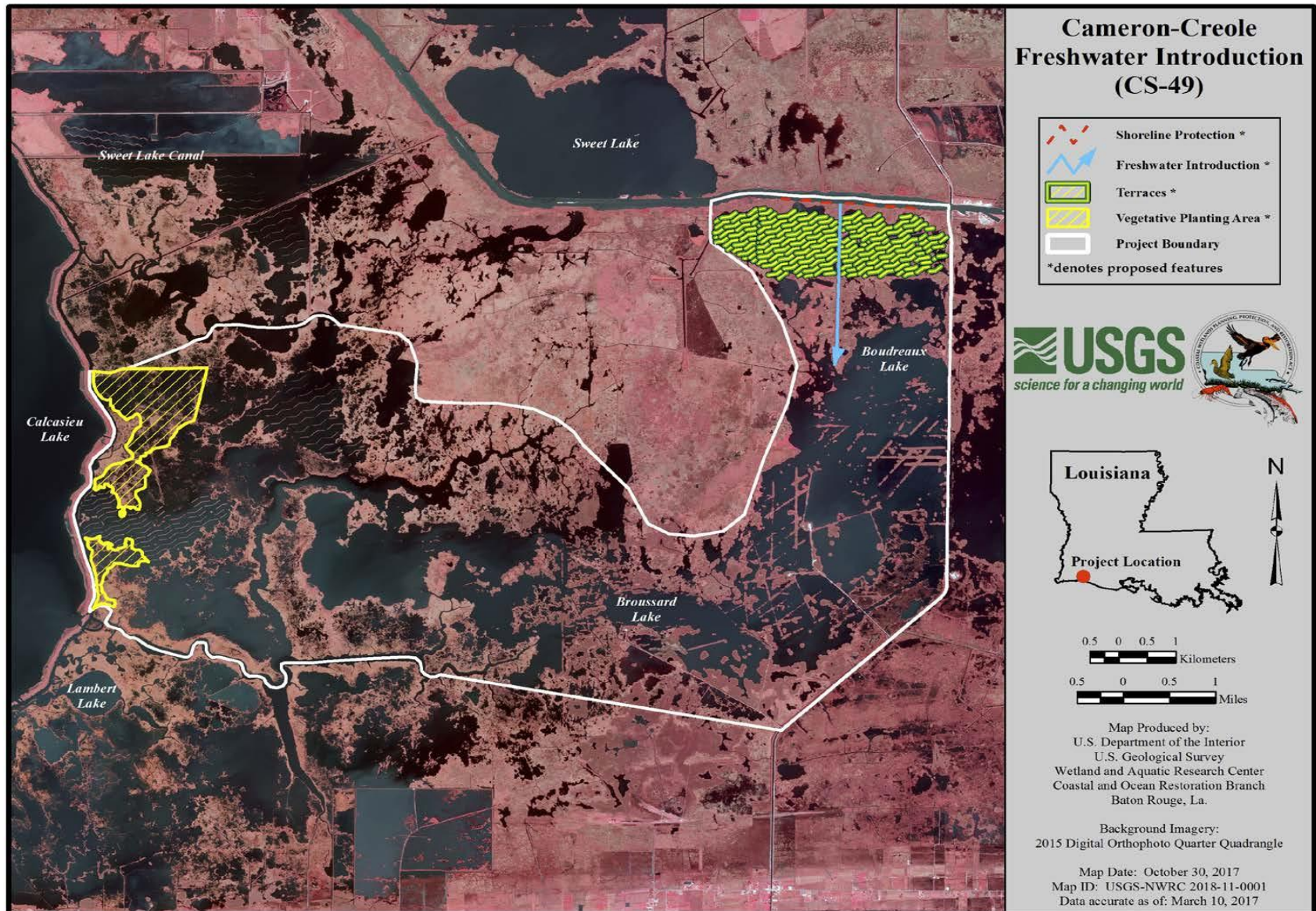
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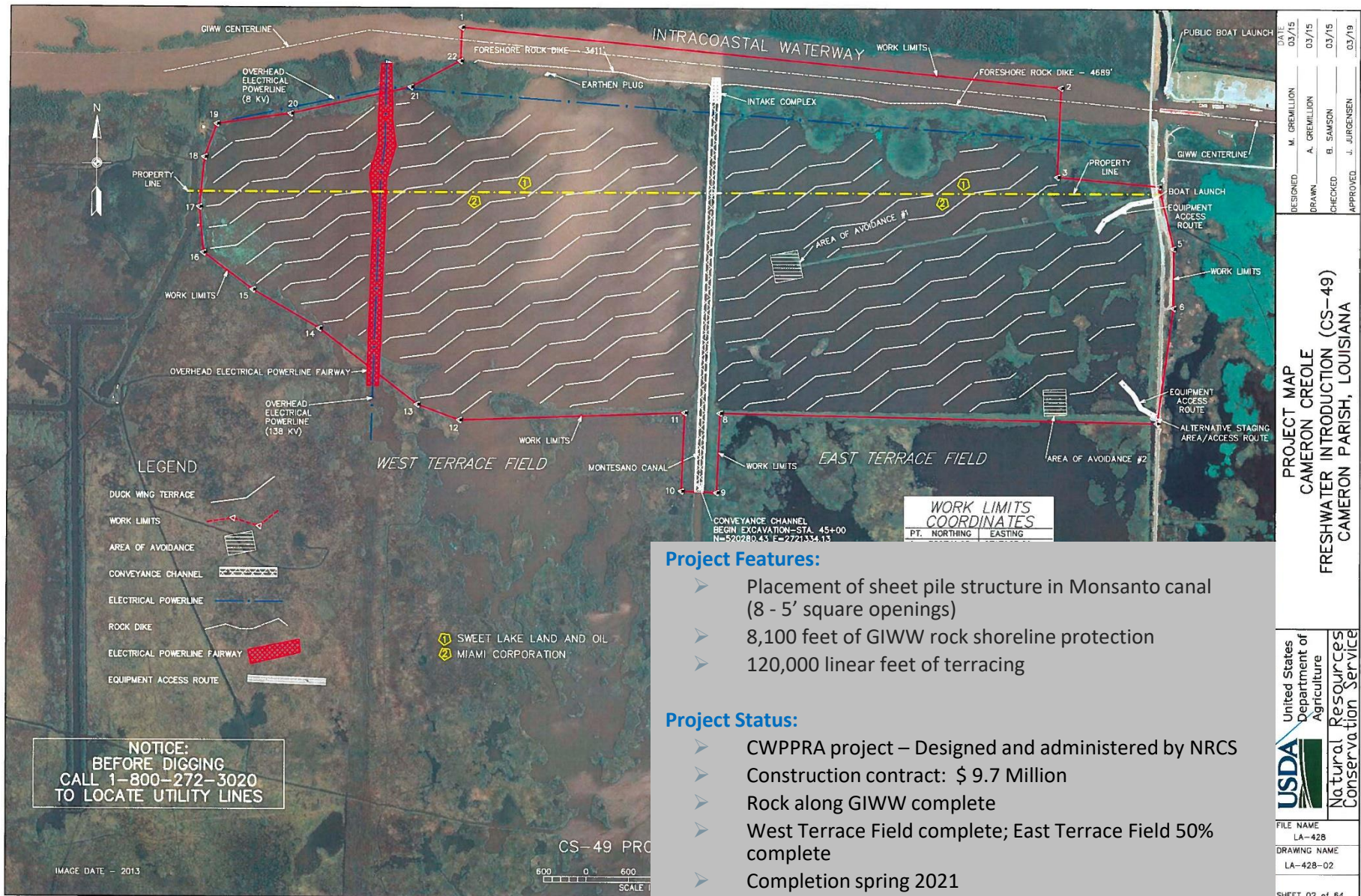
Cameron Creole Freshwater Introduction (CS-49)



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Post Hurricane Laura 9/10/2020



09 10 2020

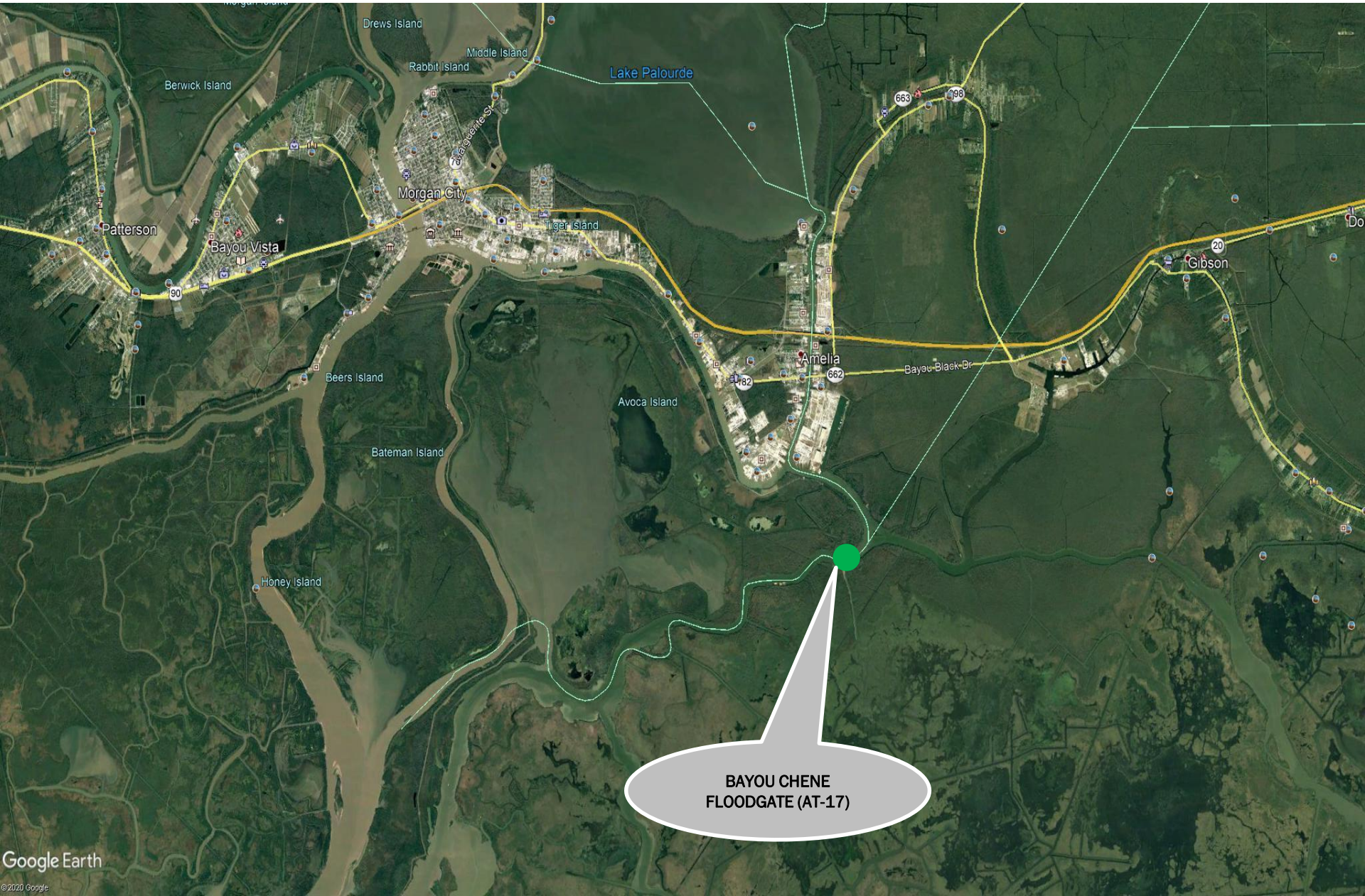
Cameron Creole Freshwater Introduction (CS-49)



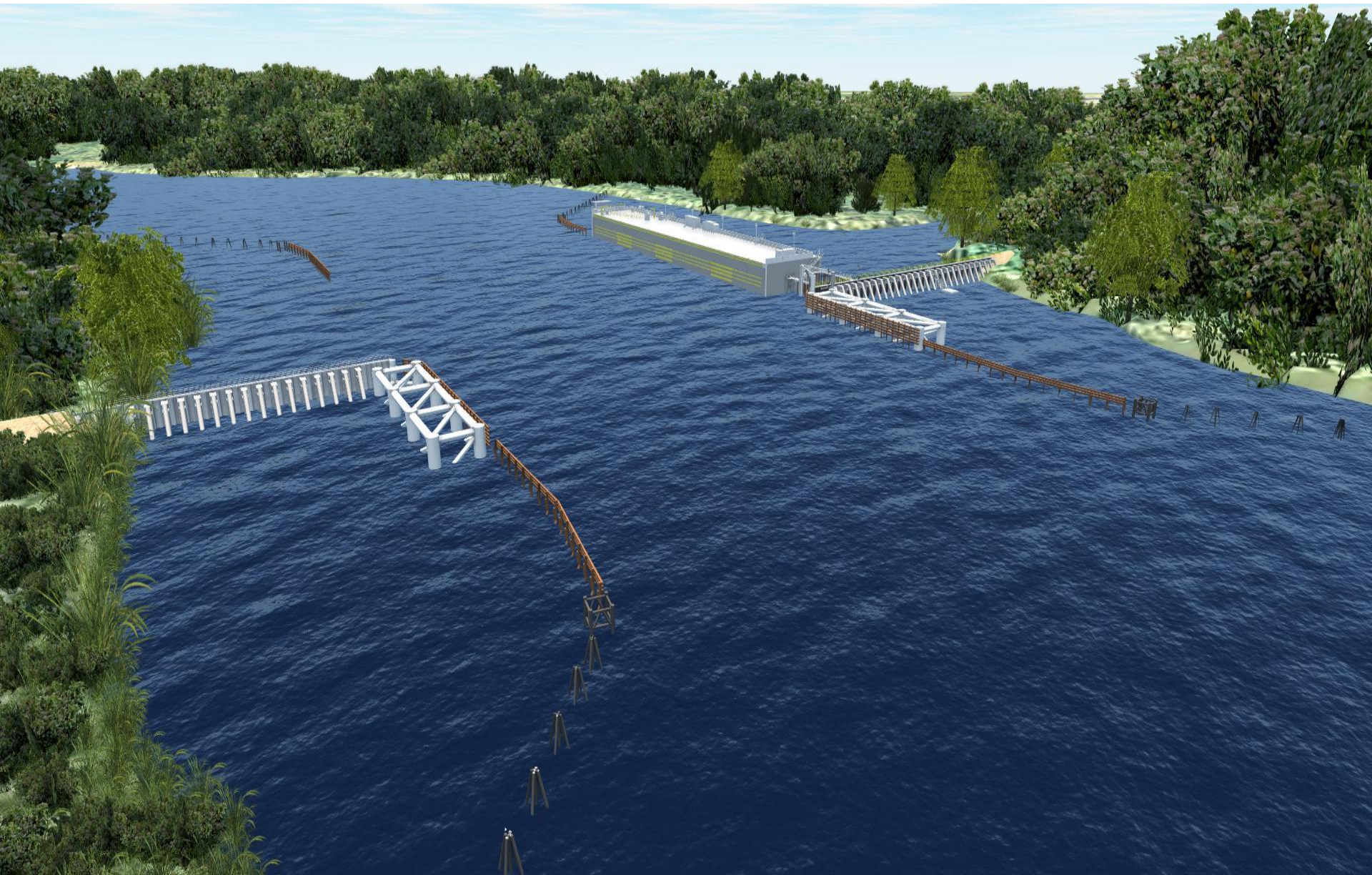
Post Hurricane Laura 9/10/2020



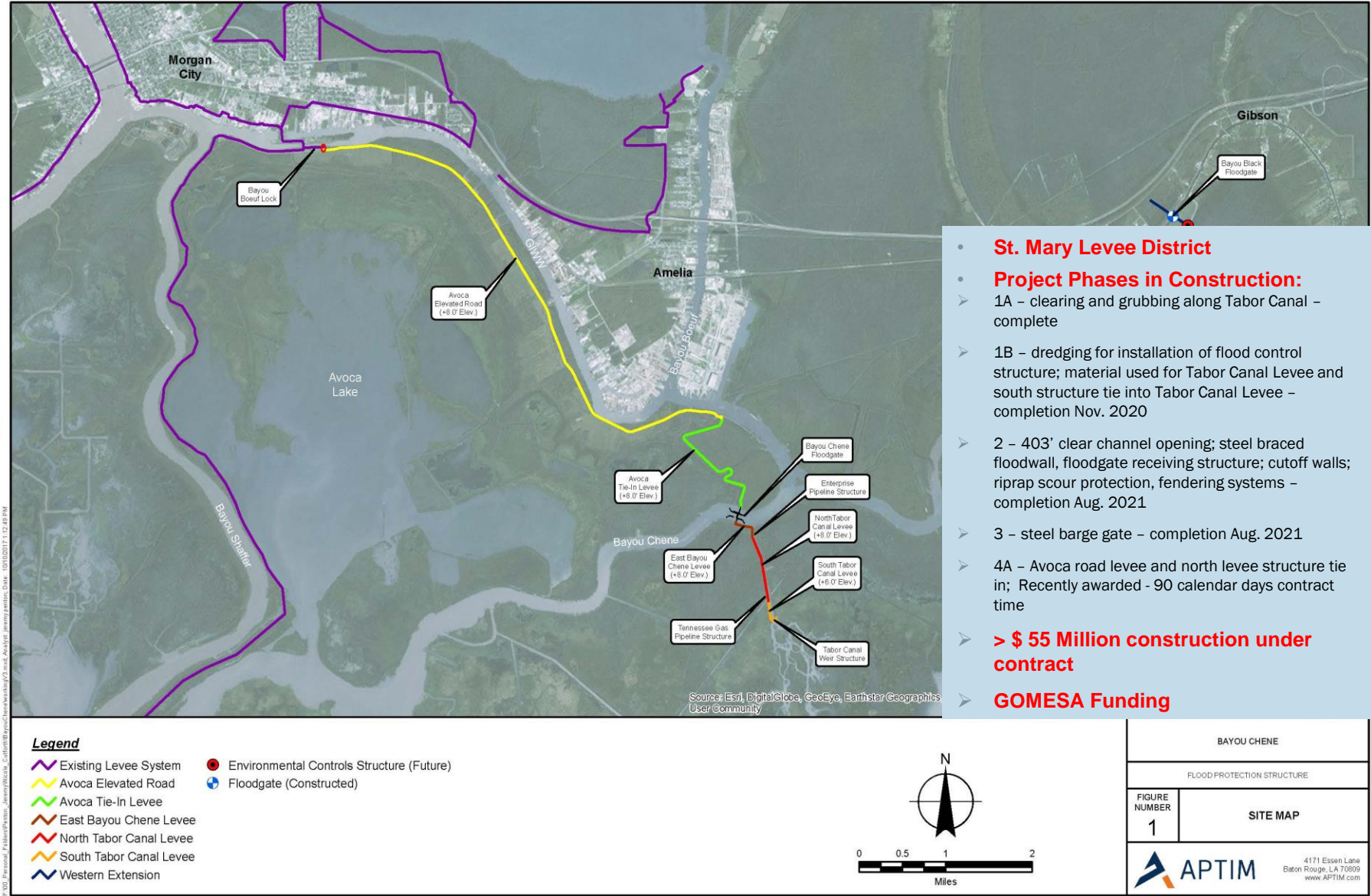
Bayou Chene Floodgate (AT-17)



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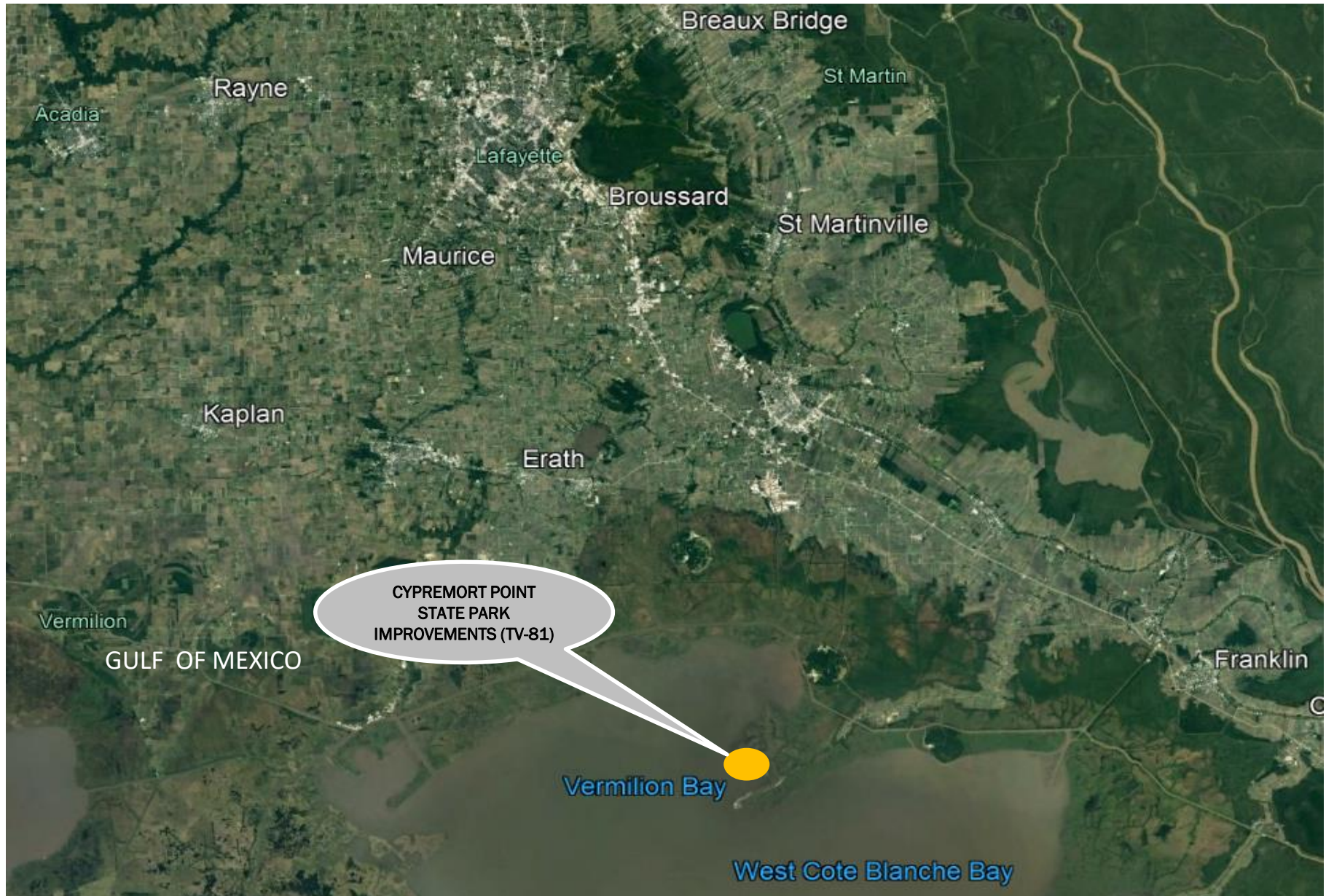
Bayou Chene Floodgate (AT-17)



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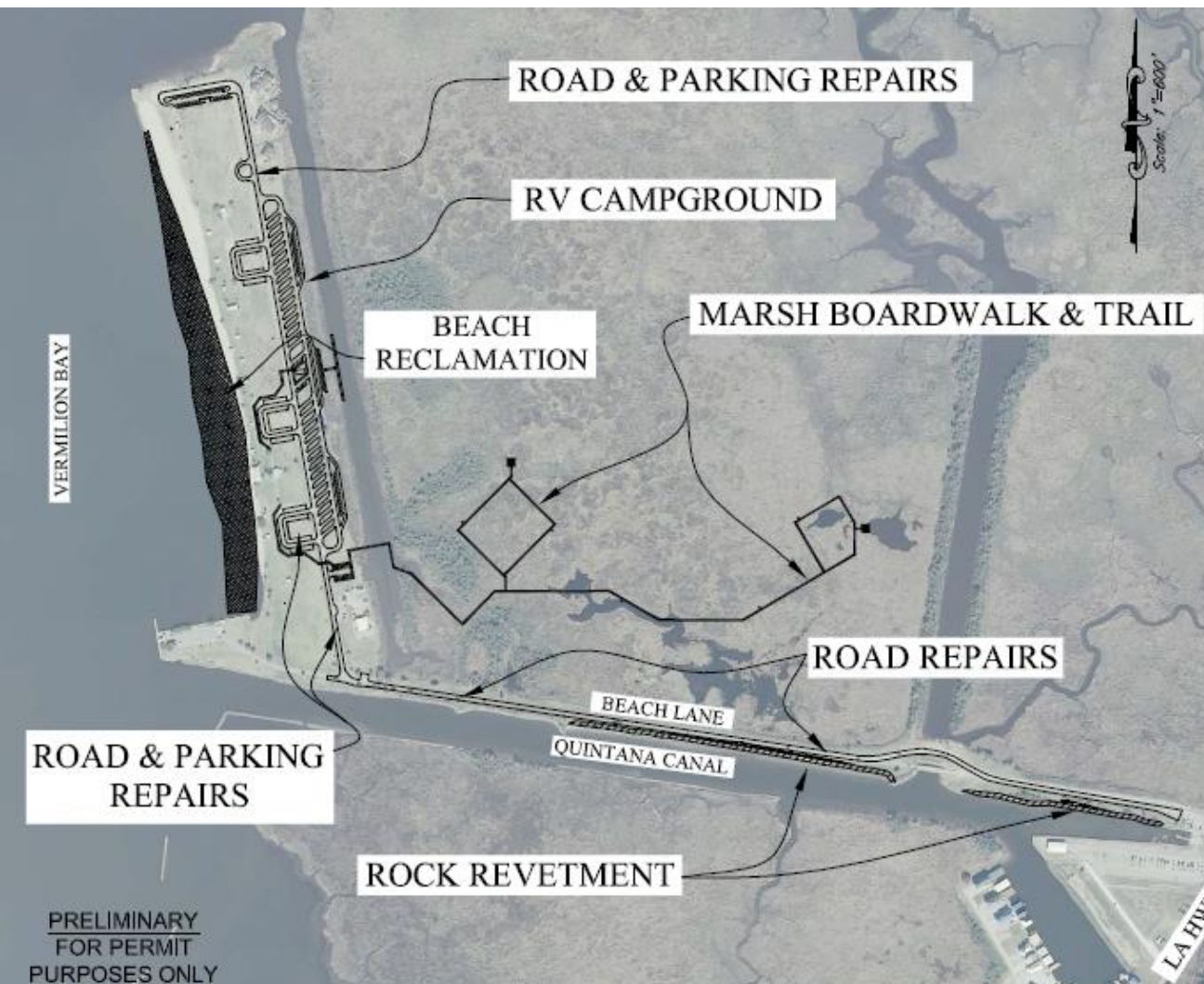


Cypremort Point State Park Improvements (TV-81)



Cypremort Point State Park Improvements (TV-81)

NRDA – Recreational Use Project



- **Project Stakeholders:** CPRA and DCRT-Office of State Parks
- **Project Features:**
 - Beach Reclamation
 - Repair Rock Jetty along Quintana Canal
 - 4000 ft Boardwalk through the Marsh Interior
 - 31 space Campground with Mobile Bathhouse (Submitted for Approval)
 - Entrance Road Repair and Resurfacing
- **Project Status:**
 - Beach Reclamation – Purchase & provide sand end 2020; construction by State Parks
 - Rock Jetty & Boardwalk – Bid Nov. 2020
 - Road Repair & Campground – Bid Feb/March 2021
 - Construction Estimate - \$3.5M

South Grand Chenier Marsh Creation (ME-20)

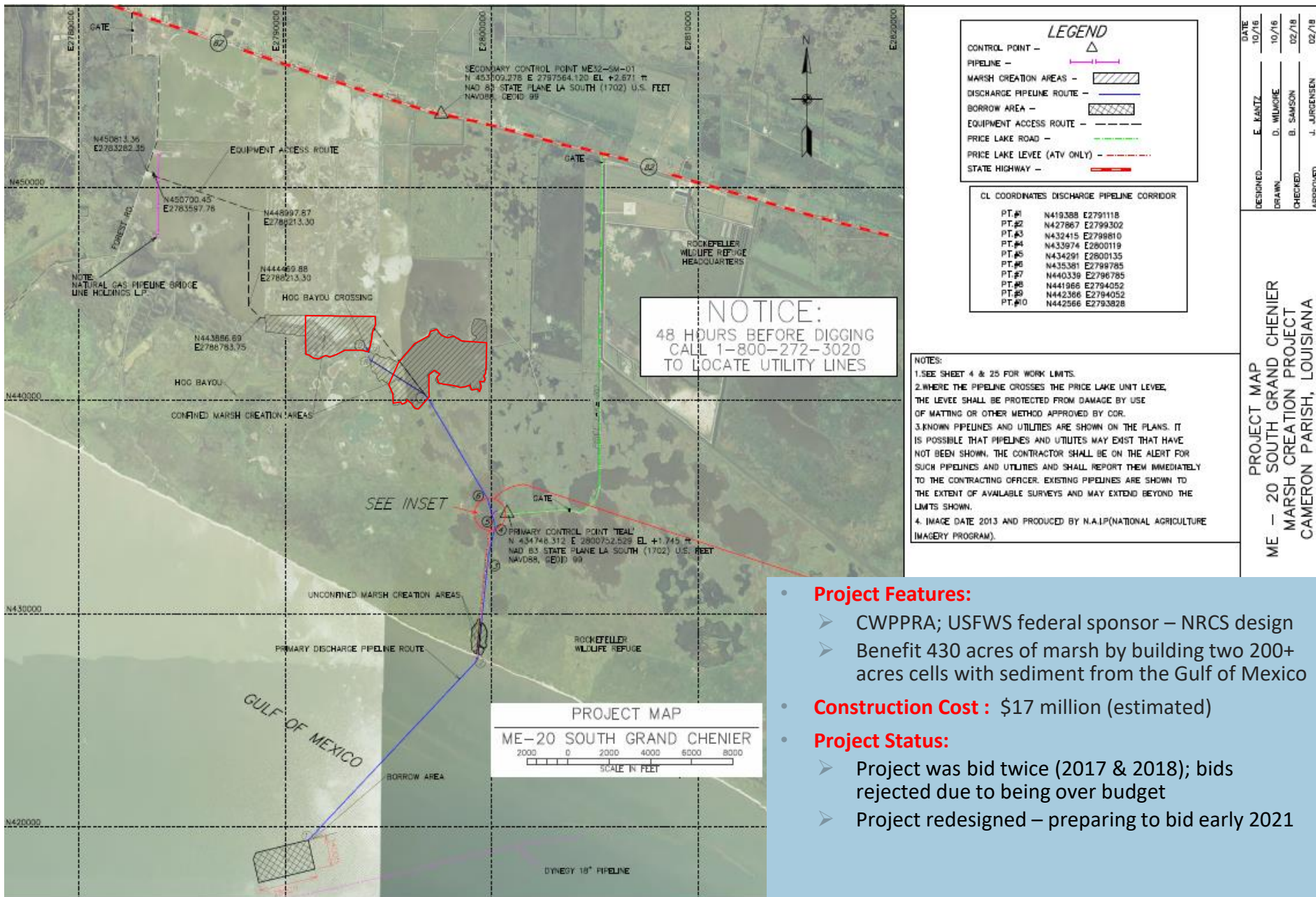


South Grand Chenier Marsh Creation

(ME-20)

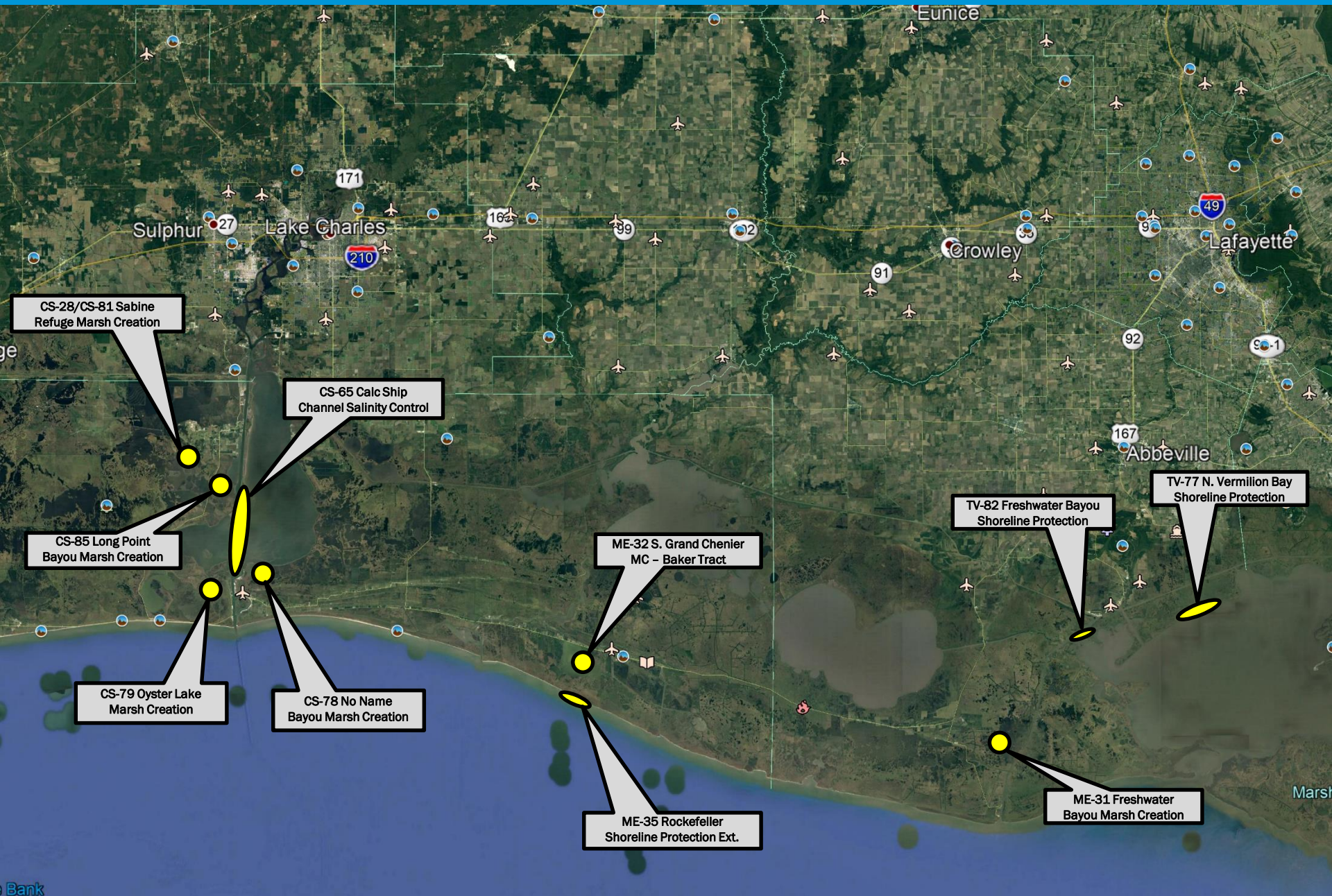


South Grand Chenier Marsh Creation (ME-20)



- **Project Features:**
 - CWPPRA; USFWS federal sponsor – NRCS design
 - Benefit 430 acres of marsh by building two 200+ acres cells with sediment from the Gulf of Mexico
- **Construction Cost :** \$17 million (estimated)
- **Project Status:**
 - Project was bid twice (2017 & 2018); bids rejected due to being over budget
 - Project redesigned – preparing to bid early 2021

PROJECT IN E&D



CWPPRA Projects in Engineering & Design Phase

Project ID	Project Name	Project Lead	Parish	Federal Sponsor	30% Meeting	95% Meeting
CS-0078	No Name Bayou Marsh Creation	CPRA	Cameron	NOAA	July 2020	Oct 2020
CS-0079	Oyster Lake Marsh Creation and Nourishment	CPRA	Cameron	NOAA	June 2020	Oct 2020
CS-0081	Sabine Marsh Creation Cycles 6&7	USACE	Cameron	USFWS		Oct 2021
CS-0085	Long Point Bayou Marsh Creation	CPRA	Cameron	EPA	Jan 2021	May 2021
ME-0031	Freshwater Bayou Marsh Creation	NRCS	Vermilion	NRCS	June 2020	Oct 2020
ME-0032	South Grand Chenier Marsh Creation - Baker Tract	NRCS	Cameron	NRCS	June 2021	Nov 2021

Other Projects in E&D

Vermilion Parish led projects

- TV-77 North Vermilion Bay Shoreline Protection (\$7.9M State funds)
- TV-82 Freshwater Bayou Shoreline Protection (\$3.6M State funds)

Cameron Parish led project

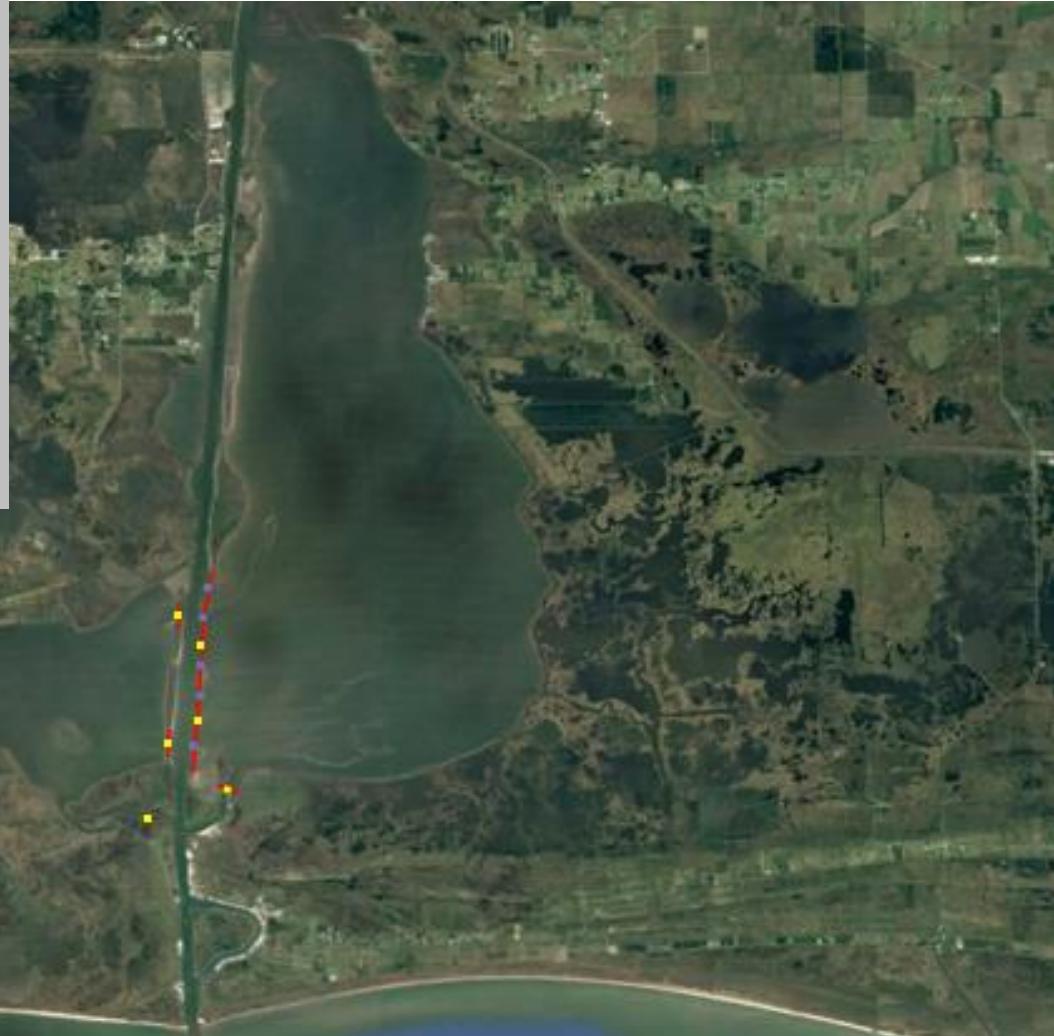
- ME-35 Rockefeller Refuge Shoreline Protection Ext. (\$6.67M State RESTORE & \$2M Parish RESTORE)



Regionwide SW LA Projects

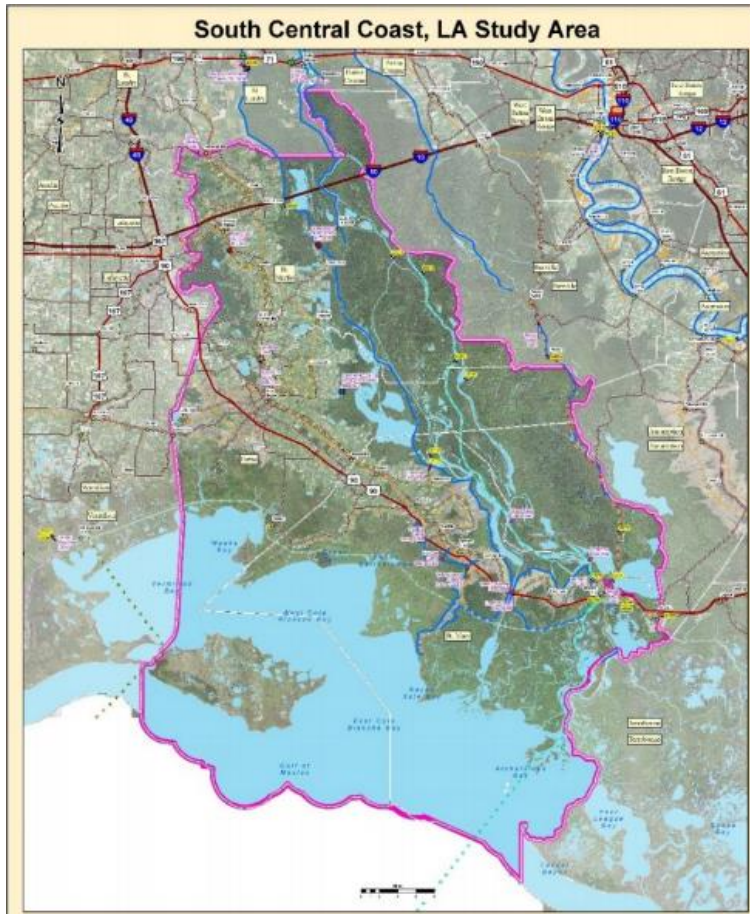
CS-0065 Calcasieu River Salinity Control Measures (RESTORE, \$263.8M, Calcasieu and Cameron Parishes)

- Land loss in the Calcasieu-Sabine Basin is driven by two factors
 - Salt water intrusion
 - Marsh flood stress from sea level rise and other drainage
- Current 30% Design includes multiple features along or near the Calcasieu Ship Channel to better confine highly-saline water to the Calcasieu Ship Channel to reduce land loss
- Currently assessing project feature optimization including additional modeling to address marsh inundation

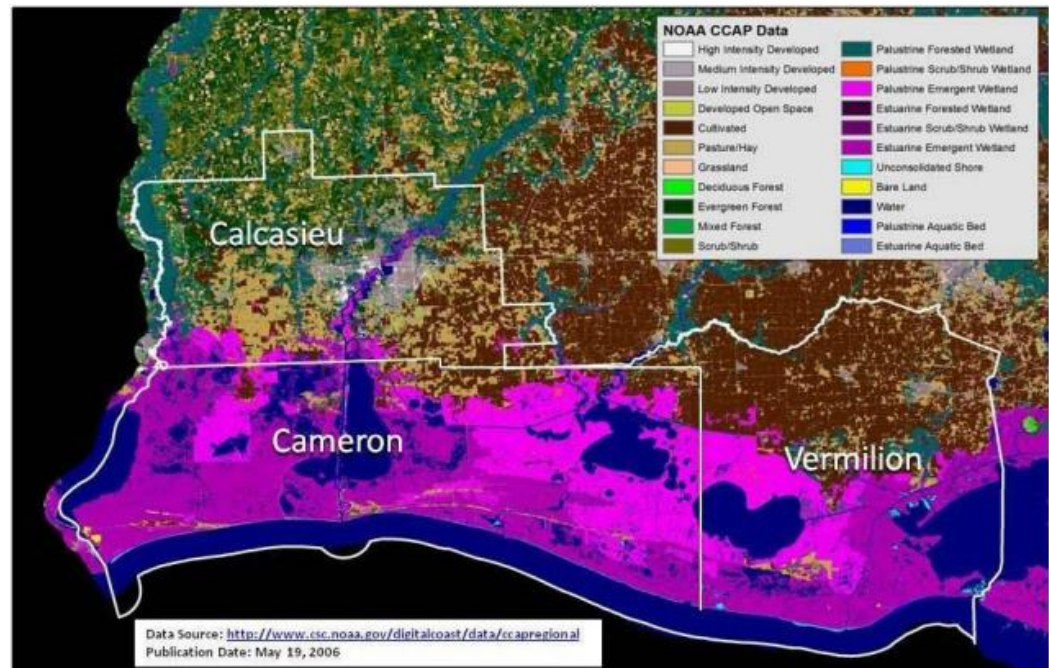


Regionwide SW LA Projects (cont'd)

TV-0054 South Central Coastal Plan (WRDA, \$3M, Ibe, StMt, StMa)- study and design of multiple hurricane protection features for coastal communities in St. Martin, Iberia, and St. Mary Parishes



LA-0020 Southwest Coastal Louisiana Feasibility Study (WRDA, \$3.4B, Cal, Cam, Ver)- integrated suite of ecosystem restoration and protection measures to address coastal issues of SW LA including shoreline stabilization, marsh creation, salinity control, hurricane protection, and chenier restoration



Project Timelines- Regionwide (E&D)

Project ID	Funded for CON	E&D Finish (Est.)
CS-0065 Calcasieu River Salinity Control	Yes	Late 2022
TV-0054 South Central Coastal	No	Mid-2022
LA-0020 Southwest Coastal	No	TBD



QUESTIONS?



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COMPLETED PROJECTS (since 2009)



COMPLETED PROJECTS (since 2009)

